

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
20 January 2005 (20.01.2005)

PCT

(10) International Publication Number  
WO 2005/005472 A1

not Sk

(51) International Patent Classification<sup>7</sup>: C07K 14/44,  
A61K 39/395, 39/012

(21) International Application Number:  
PCT/EP2004/007080

(22) International Filing Date: 30 June 2004 (30.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
103 30 235.2 4 July 2003 (04.07.2003) DE

(71) Applicant (for all designated States except US): BAYER  
HEALTHCARE AG [DE/DE]; 51368 Leverkusen (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): GREIF, Gisela  
[DE/DE]; Marienhöhe 15, 53424 Remagen (DE). HOSSE,  
Ralf [DE/DE]; Liebfrauenstr. 39, 40591 Düsseldorf (DE).  
KRÜCKEN, Jürgen [DE/DE]; Schaffenbergstr. 3, 41352  
Korschenbroich (DE). WUNDERLICH, Frank [DE/DE];  
Burgstr. 31, 41469 Neuss (DE).

(74) Common Representative: BAYER HEALTHCARE  
AG; 51368 Leverkusen (DE).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

BEST AVAILABLE COPY

Le 17 36 695

(54) Title: USE OF A NOVEL EIMERIA GENE AND CORRESPONDING PROTEIN

(57) Abstract: The invention relates to a novel oocyst sporocyst protein (Ei0s22) belonging to the parasite of the species *Eimeria tenella* and to the polynucleotide encoding this protein, to vectors which contain this polynucleotide, to cells which are transformed with these vectors, to antibodies which are directed against the protein, to vaccines which comprise the polynucleotide, the protein, or fragments thereof, the abovementioned vectors or antibodies directed against the protein, and to the use of polynucleotide or of polypeptide for finding active compounds for treating an infection with *Eimeria* and active compounds which are suitable for the therapy of an infection with *Eimeria*.

WO 2005/005472 A1